KENWOOD

7-Inch WIDE TELEVISION

VZ-7000P
VZ-7000N

INSTRUCTION MANUAL

KENWOOD CORPORATION

Contents

The control screens shown in this manual are for explanation purposes only.
The actual screens and design differ.

Safety Precautions

⚠WARNING

To prevent injury and/or fire, take the following precautions:

• Ensure that the unit is securely installed. Otherwise it may fly out of place during collisions and other jolts.
• When extending the ignition, battery or ground wires, make sure to use automotive-grade wires or other cables with an area of 0.75mm² (AWG18) or more to prevent wire deterioration and damage to the wire coating.
• To prevent short circuits, never put or leave any metallic objects (e.g., coins or metal tools) inside the unit.
• If the unit starts to emit smoke or strange smells, turn off the power immediately and consult your Kenwood dealer.
• Do not touch the liquid crystal fluid if the LCD is damaged or broken due to shock. The liquid crystal fluid may be dangerous to your health or even fatal. If the liquid crystal fluid from the LCD contacts your body or clothing, wash it off with soap immediately.

⚠CAUTION

To prevent damage to the machine, take the following precautions:

• Make sure to ground the unit to a negative 12V DC power supply.
• Do not open the top or bottom covers of the unit.
• Do not install the unit in a spot exposed to direct sunlight or excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.
• Do not subject the faceplate to excessive shock, as it is a piece of precision equipment.
• When replacing a fuse, only use a new one with the prescribed rating. Using a fuse with the wrong rating may cause your unit to malfunction.
• To prevent short circuits when replacing a fuse, first disconnect the wiring harness.
• Do not use any screws except for the ones provided. The use of improper screws might result in damage to the main unit.
• You cannot view video pictures whilst the vehicle is moving. To enjoy TV/video pictures, find a safe place to park and engage the parking brake.

NOTE

• If you experience problems during installation, consult your Kenwood dealer.
• If the unit does not seem to be working right, try pressing the reset button first. If that does not solve the problem, consult your Kenwood dealer.
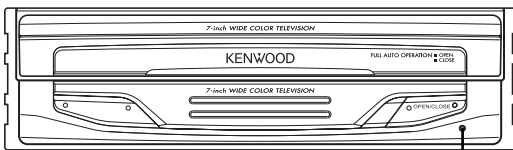
Reset button

• When a center unit is connected, press the reset button of the center unit once. Refer to the instruction manual of the center unit for the location of the reset button.
• If a center unit is connected, do not use the reset button of this unit, but press the reset button of the center unit.

Cleaning the Unit

If the front panel gets dirty, turn off the power and wipe the panel with a dry silicon cloth or soft cloth.

⚠CAUTION

Do not wipe the panel with a stiff cloth or a cloth dampened by volatile solvents such as paint thinner and alcohol. They can scratch the surface of the panel and/or remove the indicator letters.

Screen brightness during low temperatures

When the temperature of the unit falls such as during winter, the liquid crystal panel's screen will become darker than usual. Normal brightness will return after using the monitor for a while.

Loading and Replacing the Batteries for the Remote

⚠CAUTION

Do not set the remote on hot places such as above the dashboard.

Loading and Replacing the Batteries

1. Use two "AAA" batteries:
Slide the cover while pressing downwards to remove it as illustrated.
2. Insert the batteries with the ⊕ and ⊖ poles aligned properly following the illustration inside the case.
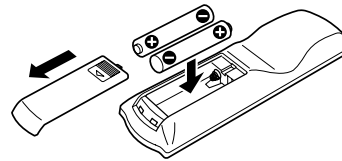
⚠WARNING

Store unused batteries out of the reach of children. Contact a doctor immediately if the battery is accidentally swallowed.

NOTE

• The provided batteries are intended for use in operation checking, and their service life may be short.
• When the remote controllable distance becomes short, replace both of the batteries with new ones.

IMPORTANT INFORMATION

• The center units that can be operated on the touch panel of this unit are as follows (as of April, 2002):
KDC-9020R, KDC-MPV7020, KDC-6020, KDC-Z939, KDC-Z838, KDC-Z737 and KRC-Z965
• To connect a disc changer/CD player, a center unit and KCA-S210A are necessary. Refer to the instruction manual of KCA-S210A for the connection method.
• If there is the "O-N" switch on a disc changer/CD player to be connected, set the switch to the "N".

Monitor Control Function

OPEN/CLOSE

FNC **SCREEN** **∨** **∧**

V.SEL **MODE** **OPEN/CLOSE**
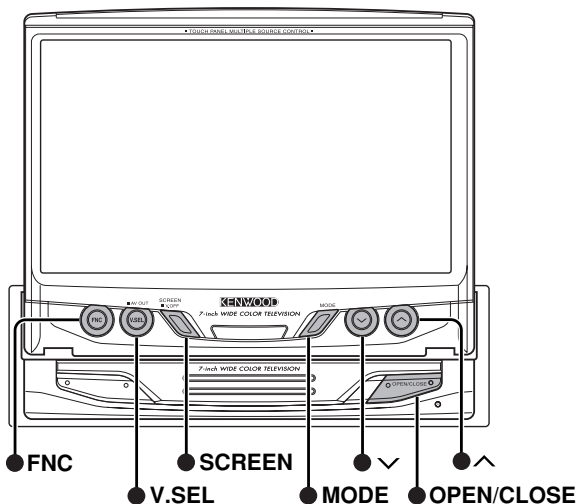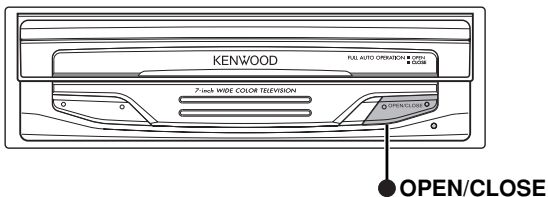
Opening the Monitor

1 Set the vehicle's parking brake.

2 Press the OPEN/CLOSE button. The monitor will open.

⚠**CAUTION**

The gear shift lever or other parts may interfere with the monitor when it opens. If so, move the gear shift lever (being sure to do so safely) before operating the set. (The monitor is drawn back in automatically if it cannot be opened normally due to an obstacle.)

NOTE

The monitor cannot be opened unless the parking brake is set.

Closing the Monitor

Press the OPEN/CLOSE button. The monitor will close.

NOTE

• The monitor cannot be closed unless the parking brake is set.
• The position to which the monitor slides or angle when the power is turned on can be set. (Refer to the angle control screen on (Page 7).

Power Off

Hold down the OPEN/CLOSE button for one second or more to turn the set's power off.
Press the OPEN/CLOSE button to turn the power on.

NOTE

If a center unit is connected, you cannot turn the Power on/off on this unit. Please operate the power on the center unit.

Switching the Monitor's Picture

Each time you press the V.SEL button, the monitor's picture switches as follows:

NAV setting during "RGB"

Television or Video (from AV IN terminal)

Navigation (from I/F terminal)

NAV setting during "AVIN"

Television or Video (from AV IN terminal)

Navigation (from AV IN terminal)

NAV setting during "OFF"
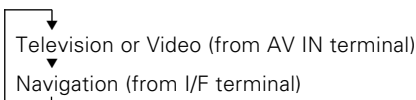
Television or Video (from AV IN terminal)

Video (from AV IN terminal)
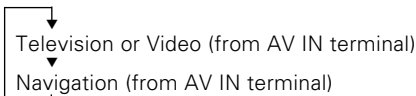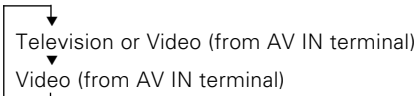
NOTE

When the "VD2 MODE" setting to "VD", the switching items become the picture from VIDEO 2 IN terminal. (Refer to AV setting screen(page 8))

⚠**CAUTION**

You cannot view television and video pictures whilst the vehicle is moving. To enjoy television and video pictures, find a safe place to park and engage the parking brake.

Monitor Control Function

FNC **SCREEN** ∨ ∧

V.SEL **MODE** **OPEN/CLOSE**

─────── **Screen Mode** ───────

• **NORMAL**   • **FULL**

• **JUST**   • **ZOOM**
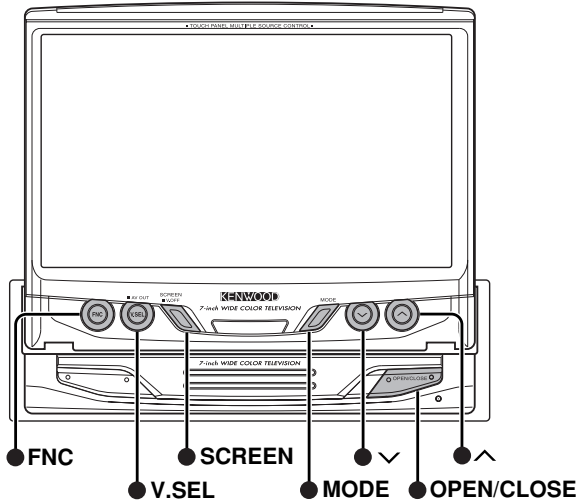
• **CINEMA**

Switching the Screen Mode

Each time you press the MODE button, the screen mode switches as follows:

FULL : Full picture mode

ZOOM : Zoom picture mode

JUST : Just picture mode

CINEMA : Cinema picture mode

NORMAL : Normal picture mode

Switching the AV Output

Each time you press the V.SEL button for one second or more, AV output switches as follows:

NORMAL : Picture/sound with the monitor's picture (TV or from the AV IN terminal)

TV : Picture/sound of the television

VIDEO : Picture/sound input from the AV IN terminal

Switching to the Angle/Screen Control Screen

Pressing the SCREEN button will cause the angle control screen (monitor angle adjustment mode) or screen control screen (screen adjustment mode) to be displayed on the picture (Page 7).

Turning the Monitor Picture Off

Hold down the SCREEN button for one second or more to turn the monitor's picture off.

NOTE

The picture reappears when the one of the SCREEN, MODE or V.SEL buttons is pressed.

Switching to the Source Control Screen

Press the FNC button to switch to the source control screen (Page 13-22).

Changing the Background of the Source Control Screen Picture

Each time you press the FNC button, you can select the background between 8 different patterns for the source control screen and menu screen.

Adjusting the Volume

If the VOLUME-CONTROL item is set to "MONITOR" in the Speaker setting of System Setup Function (page 9)

Press the ▲ button to increase the volume of the built-in speaker.
Press the ▼ button to decrease the volume of the built-in speaker.

If the VOLUME-CONTROL item is set to "HEAD" in the Speaker setting of System Setup Function (page 9)

Press the ▲ button to increase the volume of the center unit.
Press the ▼ button to decrease the volume of the center unit.
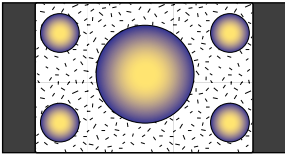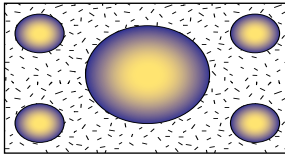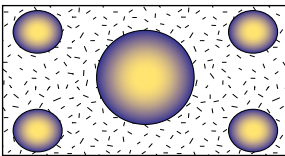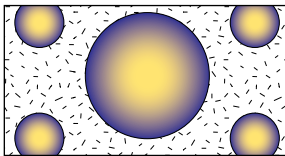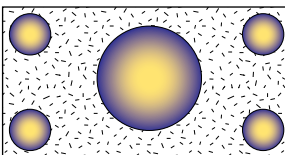
Screen Control Function

Angle Control Screen
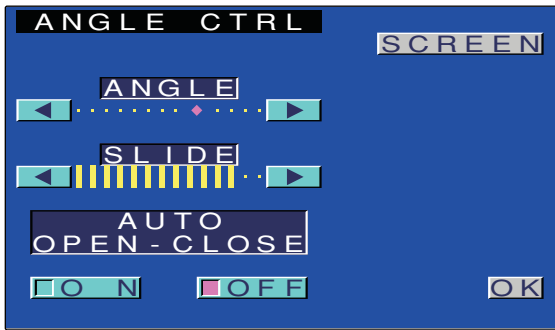
Adjusting the Angle Position [ANGLE]

Each time you touch [►], the monitor slants back one step.
Each time you touch [◄], the monitor slants forward one step
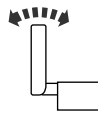
NOTE
• The angle can be adjusted in 9 steps.
• The next time the monitor is opened it stops at the set location.

Adjusting the Slide Position [SLIDE]

Touch [►] to slide the monitor to the front.
Touch [◄] to slide the monitor to the back.

NOTE
The next time the monitor is opened it stops at the set location.

Turning the Automatic Open/Close Function On/Off [AUTO OPEN-CLOSE]

Touch [ON] or [OFF] to switch the function on and off.

[■ON]   : Switch the ACC on/off to open/close the monitor

[■OFF]   : Use the OPEN/CLOSE button to open/close the monitor

NOTE
If the shift lever or other parts of the vehicle interfere with the monitor when it opens, select "OFF".

Switching to the Screen Control Screen

Touch [SCREEN] to switch to the screen control screen.

Ending the Angle Control Screen

Touch [OK].

NOTE
If you make no touch operation for 10 seconds, the Angle Control Screen is automatically canceled.

Screen Control Screen
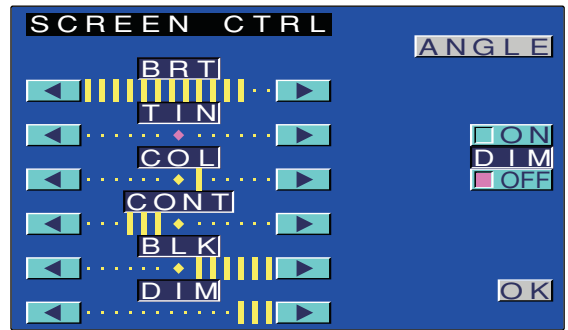
Adjusting the Picture Quality

[BRT]
Touch [►] for a brighter screen.
Touch [◄] for a darker screen.

[TIN]
Touch [►] for a stronger red level.
Touch [◄] for a stronger green level.

[COL]
Touch [►] for a deeper color.
Touch [◄] for a paler color.

[CONT]
Touch [►] for stronger contrast.
Touch [◄] for less contrast.

[BLK]
Touch [►] for less blackness.
Touch [◄] for a stronger black level.

[DIM]
Touch [►] for a brighter screen.
Touch [◄] for a darker screen.

NOTE
• The [TIN] and [COL] cannot be adjusted for the graphic screens (source control, etc.).
• The [TIN] cannot be adjusted for the picture of PAL.

Auto Dimmer [DIM]

Touch [ON] or [OFF] to switch the function on and off.

[■ON]   : The [DIM] level can be adjusted. Also, when the area around the monitor dark it's at the brightness level set by the [DIM].

[■OFF]   : The [DIM] items can't be adjusted. Also, even if the area around the monitor is dark, it can't be changed from the brightness set by the [BRT].

NOTE
When adjusting nighttime picture quality, switch this function ON.

Switching to the Angle Control Screen

Touch [ANGLE] to switch to the angle control screen.

Ending the Screen Control Screen

Touch [OK].

NOTE
If you make no touch operation for 10 seconds, the Screen Control Screen is automatically canceled.

System Setup Function

Setup Menu Screen

AV SET	SPEAKER
VIDEO	TOUCH
SYSTEM	TV AREA
CLOCK	FM-TX

SETUP _____ RTN
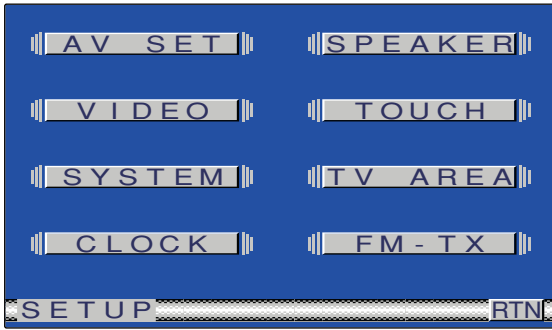
Switching to the Setup Menu Screen

1 Press the FNC button on the monitor. The source control screen is displayed (Page 13-22).

2 Touch [MENU] to switch to the setup menu screen.

Switching to the AV Setting Screen

Touch [AV SET] to switch to the AV setting screen (Page 8).

Switching to the Speaker Setting Screen

Touch [SPEAKER] to switch to the speaker setting screen (Page 9).

Switching to the System Setting Screen

Touch [SYSTEM] to switch to the system setting screen (Page 9).

Switching to the FM Transmitter Setting Screen

Touch [FM-TX] to switch to the FM transmitter setting screen (Page 10).

NOTE

When the Center unit is connected this function is not displayed.

Switching to the TV Area Setting Screen < VZ-7000P only >

Touch [TV AREA] to switch to the TV area setting screen (Page 10).

Switching to the Video Setting Screen < VZ-7000P only >

Touch [VIDEO] to switch to the video setting screen (Page 11).

Switching to the Clock Adjustment Screen

Touch [CLOCK] to switch to the clock adjustment screen (Page 11).

NOTE

When the Center unit is connected this function is not displayed.

Switching to the Touch Panel Adjustment Screen

Touch [TOUCH] to switch to the panel adjustment screen (Page 12).

Canceling the Setup Menu Screen

Touch [RTN] to switch to the menu screen.

AV Setting Screen

NAV
☐ RGB ☐ AVIN ☐ OFF
AV - IN
AV - OUT
☐ NORM ☐ T V ☐ V D
VD2 MODE
☐ AUTO ☐ V D ☐ OFF

AV SET _____ RTN
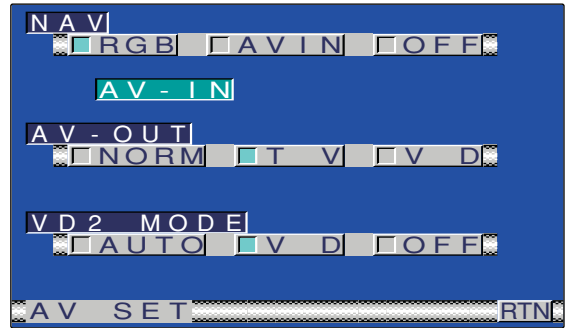
Setting the Navigation Input [NAV]

Touch [RGB], [AVIN] or [OFF] to switch the Navigation input setting between the Video and the Navigation modes according to a navigation connected.

[■OFF] : Set the video mode

[■AVIN] : Set the navigation mode

[■RGB] : Set the navigation mode

NOTE

• If a navigation unit is connected to AV IN, be sure to set it to [AVIN].

• If a navigation unit is connected to NAVI interface terminal's, be sure to set it to [RGB].

Setting the AV Output [AV-OUT]

Touch [NORM], [TV] or [VD] to switch the AV OUT terminal's output setting between normal, TV and video mode.

[■NORM] : Same picture/sound as the picture on the monitor

[■TV] : Picture/sound from television.

[■VD] : Picture/sound from AV IN terminal.

Setting the Video 2 Input [VD2-MODE]

Touch [AUTO] , [VD] or [OFF] to switch the VIDEO 2 IN terminal's input setting between auto, video and off mode.

[■AUTO] : It becomes the Back View Camera mode setting.
When the video signal input to the VIDEO 2 terminal, the monitor image is switched to the image of the device connected to the VIDEO 2 IN terminal.

[■V D] : It becomes the video mode setting.
Operate the V.SEL button when the image from the device connected to VIDEO 2 IN terminal is shown on the monitor.

[■OFF] : It becomes the OFF mode setting.
Use this setting when there's nothing connected to the VIDEO 2 IN terminal.

Ending the AV Setting Screen

Touch [RTN] to return to the setup menu screen.

Speaker Setting Screen

```
SP - MODE
   □NORM  □NAV  □OFF

SP - LEVEL
   ◄   1 0   ►

VOLUME - CONTROL
   □HEAD  □MONITOR

SPEAKER                    RTN
```
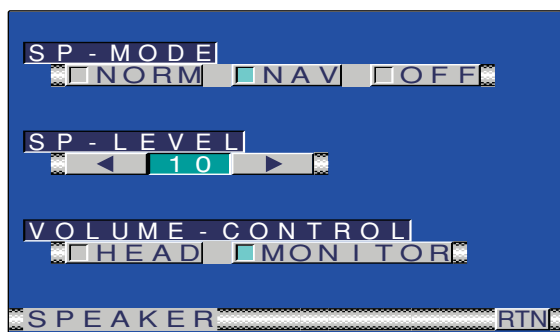
Setting the Built-In Speaker Mode [SP-MODE]

[■NORM] : Sound with monitor picture

[■NAV] : Sound with navigation

[■OFF] : Switch off the built-in speakers

Setting the Built-In Speaker Level [SP-LEVEL]

Touch [►] to increase the volume
Touch [◄] to decrease the volume

NOTE

No display when the "SP MODE" is set to "OFF".

Setting the Volume Control
[VOLUME-CONTROL]

Switching the Volume Control with volume button on the monitor panel between the Volume Control of the center unit and that of the built-in speaker.

[■HEAD] : Volume Adjustment of the center unit

[■MONITOR] : Volume Adjustment of the built-in speaker

NOTE

If a center unit is not connected, the Volume Control setting is not displayed.

Ending the Speaker Setting Screen

Touch [RTN] to return to the setup menu screen.

System Setting Screen

```
TV  BEEP
   □O N   □OFF

AUTO  ON  SCREEN
   □O N   □OFF

SYSTEM                    RTN
```
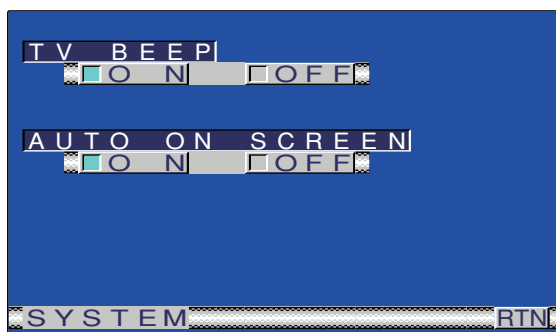
Setting the Touch Sensor Tone [TV BEEP]

Touch [ON] or [OFF] to switch the function on and off.

[■ON] : Touch sensor tone is turned on

[■OFF] : Touch sensor tone is turned off

Setting the On Screen Display Function
[AUTO ON SCREEN]

Touch [ON] or [OFF] to switch the function between automatic and manual.

[■ON] : When a button on the main unit or remote control unit is pressed, or the disc track is changed, the audio source control information is temporarily superimposed on the picture

[■OFF] : When the lower center of the screen is touched while a TV/video picture is displayed, the audio source control information is temporarily superimposed on the picture

Ending the System Setting Screen

Touch [RTN] to return to the setup menu screen.

System Setup Function

FM Transmitter Setting Screen
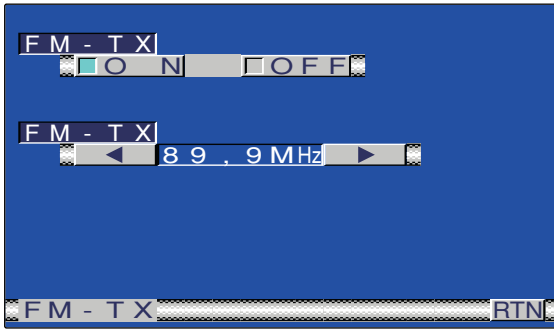
FM Transmitter Function On and Off

If the Center unit is not connected, you can use the FM transmitter function to hear the audio from the TV, video played from your car FM radio.

Touch [ON] or [OFF] to switch the FM transmitter function on and off.

[■ON]   : FM transmitter function is turned on

[■OFF] : FM transmitter function is turned off

NOTE

The sound from FM transmitter is monaural.

Adjusting the FM Transmitter Frequency

When the FM transmitter function is turned on, you can switch the transmission frequency as follows:

Touch [►] to increase the frequency by one step.
Touch [◄] to decrease the frequency by one step.

NOTE

- Be sure to select a frequency that is not the same as a broadcast station in your area.
- The "Auto Seek" function on your car radio may not stop at the FM transmitter frequency. In this case, use the "Manual Seek" function to set the radio to the FM transmitter frequency.
- If the hideaway unit is grounded the audio signal from the FM transmitter may be difficult to hear.

Ending the FM Transmitter Setting Screen

Touch [RTN] to return to the setup menu screen.

TV Area Setting Screen (VZ-7000P only)

Setting the TV Area

Select the area for TV broadcast viewing.

Selecting the Preset Bands:
Touch the [TV 1] or [TV 2] button.

Selecting the Reception Area:
Touch the [■1] - [■5] button.
Select the channel setting for your country as follows.

[■1]	China	PAL-D
[■2]	Singapore Malaysia Thailand Burnei	PAL-B/G
[■3]	Hong Kong	PAL-I
[■4]	Indonesia New Zealand	PAL-B/G
[■5]	Australia	

NOTE

The reception area can be set for two separate preset bands TV1 and TV2.

Ending the TV Area Setting Screen

Touch [RTN] to return to the setup menu screen.

Video Setting Screen (VZ-7000P only)

```
V D 1  M O D E
   ▪□ A U T O  □▪ N T S C  □ P A L▪

V D 2  M O D E
   ▪□ A U T O  □▪ N T S C  □ P A L▪




▪ V I D E O▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒▒ R T N ▪
```
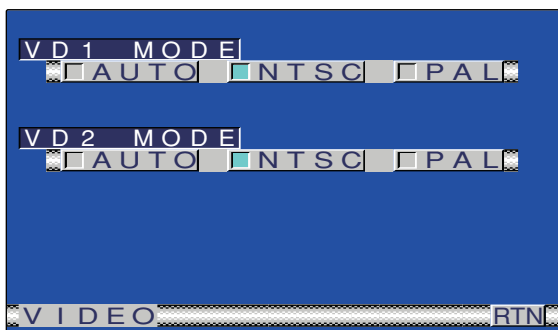
Setting of the switching mode of input video signal types

This function switches between the automatic detection and the fixed detection for input signal types of VIDEO1 and VIDEO2.

VD1 MODE

[■AUTO] : Setting of the automatic detection mode

[■NTSC] : Setting of the NTSC fixed mode

[■PAL] : Setting of the PAL fixed mode

VD2 MODE

[■AUTO] : Setting of the automatic detection mode

[■NTSC] : Setting of the NTSC fixed mode

[■PAL] : Setting of the PAL fixed mode

NOTE

It may take time to enable the automatic detection when "AUTO" is set.

Ending the Video Setting Screen

Touch [RTN] to return to the setup menu screen.

Clock Adjustment Screen

```
C L O C K

   ▲    ▲

▪ 1 2 : 0 0  P M    R E S E T ▪

   ▼    ▼


▪ C L O C K  A D J U S T ▒▒▒▒▒▒▒ R T N ▪
```
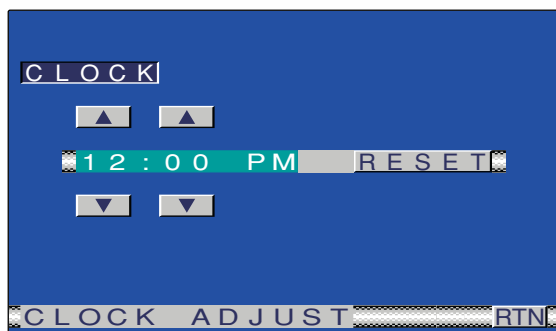
Adjusting the Time [CLOCK]

If the Center unit is not connected, you can set the clock time.

Touch [▲] to advance the hours.

Touch [▲] to advance the minutes.

```
C L O C K

   ▲    ▲

▪ 1 2 : 0 0

   ▼    ▼
```

Touch [▼] to make the hours go back.

Touch [▼] to make the minutes go back .
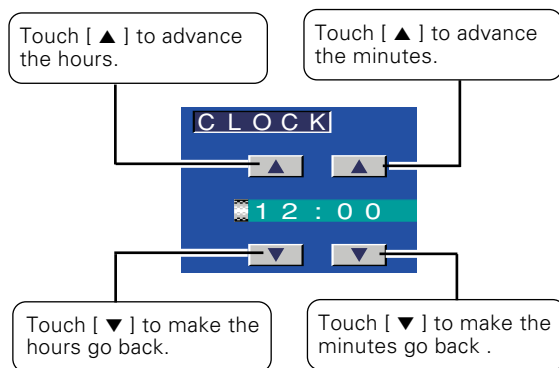
Setting the Minutes to "00":
Touch [RESET] to set the minutes to "00".

NOTE

Touch [RESET] while the minute is below "30" rounds it off, and while the minute is "30" or more rounds it up.

Ending the Clock Adjustment Screen

Touch [RTN] to return to the setup menu screen.

System Set Up Function

Touch Panel Adjustment Screen

English

```
                                    ▣

T O U C H   P A N E L   A D J U S T

P l e a s e   T o u c h
t h e   C e n t e r   o f
t h e   B u t t o n   i n   t h e
R i g h t - T o p   C o r n e r .

    ▐▌C A N C E L▐▌   ▐▌R E S E T▐▌

▣
```
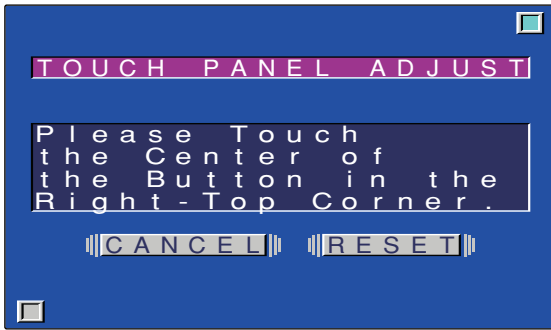
Adjusting the Touch Position

The touch panel can be adjusted if the position touched and the operation performed do not match.

1 Accurately touch the mark at the upper right.

2 Accurately touch the mark at the lower left.

When the mark at the lower left is touched, the adjustment is completed and the system setup menu screen reappears.

NOTE

- If [CANCEL] is touched without touching the button at the upper right, the adjustment is canceled and the screen that was set before switching to the system setup menu reappears.
- If [CANCEL] is touched after touching the button at the upper right, the button at the upper right reappears.
- If [RESET] is touched, the settings are reset to the factory defaults and the setup menu screen reappears.

TV Control Function

TV Control Screen (Main)
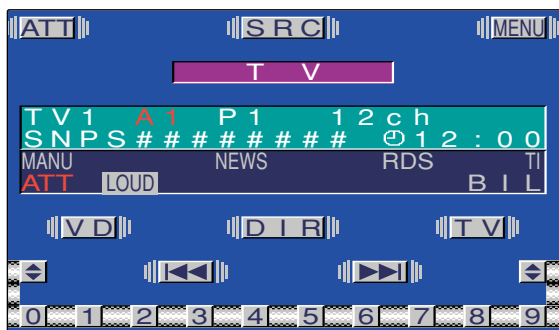
Selecting the TV Preset Bands

Touch [TV] to select the TV preset band.
Each time you touch [TV], the preset band switches between the TV1 and TV2.

Selecting the Video Input

Touch [VD] to select the video input.

Selecting the Channels

Auto Seek Tuning (AUTO1)
Touch [▶▶I] to seek for channels up.
Touch [I◀◀] to seek for channels down.
Preset station Seek Tuning (AUTO2)
Touch [▶▶I] to move to the next preset station (i.e., the one with the next highest number).
Touch [I◀◀] to move to the last preset station (i.e., the one with the next lowest number).
Manual Tuning (MANU)
Touch [▶▶I] to increase the channel by one step.
Touch [I◀◀] to decrease the channel by one step.

Station Preset Memory

Store the channel of the station currently being listened to. You can then recall that station with a single touch of a button.

1 Select the band/station that you want to store.

2 Hold down preset station number [1] - [6] on which you want to store the station, for two seconds or more.

NOTE

You can store 6 stations in each of the TV1 and TV2 bands.

Recalling a Preset Station

Touch the preset station number [1] - [6] for the desired station. The number of the recalled station is displayed.

Switching to the TV Control Screen (Shift)

Touch [◆] to switch the TV control screen (Shift).

Direct Access Tuning

When you know the channel of the station that you want to watch to, you can input it directly for quick access.

1 Select the band by touching the [TV].

2 Touch [DIR] .
"----" is displayed for 10 seconds.
If you make no input in the 10-second period, direct access tuning is automatically canceled.

3 Enter the channel of the desired station.
If you want to watch to an 1 channel, for example, touch 0 and 1.

Canceling Direct Access Tuning:
Touch the [DIR] again.

Switching to the Next Source Mode

Touch [SRC] to switch to the next source control screen.

Switching to the Menu Screen

Touch [MENU] to switch to the menu screen.

Turning the Attenuator On/Off

Turn down the volume quickly.

Touch [ATT] to switch the Attenuator on and off.

TV Control Function

TV Control Screen (Shift)

```
ATT              SRC              MENU
                  T  V

TV1    A1    P1        12ch
SNPS#########       ⏱12:00
MANU          NEWS          RDS        TI
ATT    LOUD                        BIL

    VD           DIR           TV

⬍        I◄◄        ►►I        ⬍
AME    SEEK              LIST    NAME
```

Auto Memory Entry

You can automatically store all the receivable channels in the band currently being listened to, and then recall them with the touch of a button later. This function is especially useful when you are travelling and do not know what stations are available. Up to 6 stations can be stored this way.

1 Select the band for auto memory entry.

2 Touch [AME].

   [I◄◄] and [►►I] blink.

3 Touch [I◄◄] or [►►I] to start auto memory entry.

   The preset station numbers [1] - [6] are shown in order.

   When all the stations on a certain band have been stored in the preset memory, the auto memory entry stops. The tuner then plays the last station received.

Selecting the Tuning Mode

You can choose from three tuning modes: auto seek, preset station seek, and manual. The "AUTO1" indicator is displayed when auto seek tuning is selected, and the "AUTO2" indicator is displayed when preset station seek tuning is selected.

Each time you touch [SEEK], the mode switches as follows:

AUTO 1   (Auto Seek Tuning)

AUTO 2   (Preset Station Seek Tuning)

MANU   (Manual Tuning)
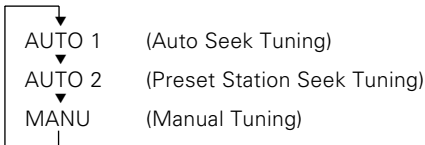
Switching to the TV List Screen

Touch [LIST] to switch to the TV list screen

Switching to the Name Set Screen

Touch [NAME] to switch to the name set screen (Page 15).

NOTE

You cannot operate unless the parking brake is set.

Returning to the TV Control Screen (Main)

Touch [⬍] to return to the TV control screen (Main).

TV List Screen

```
TV1   P1        12ch
1 SNPS########          DISP
2 SNPS########
3 SNPS########
4 SNPS########          TV
5 SNPS########
6 SNPS########          RTN
```
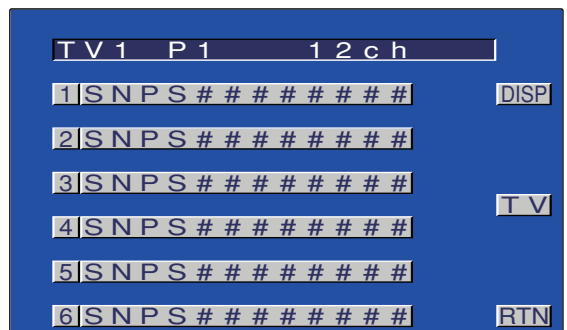
Selecting the Band List

Each time you touch [TV], the list switches between the TV1 and TV2.

Selecting the Station

Touch station number or name in the list for the desired station. The number of the recalled station is displayed.

Station Preset Memory

Store the channel of the station currently being listened to. You can then recall that station with a single touch of a button.

Hold down list number [1] - [6] on which you want to store the station, for two seconds or more.

Switching to the Display

Each time [DISP] is touched the channel No. display and the name display switch.

Returning to the Source Control Screen

Touch [RTN] to return to the source control screen (Shift) .

Name Set Screen
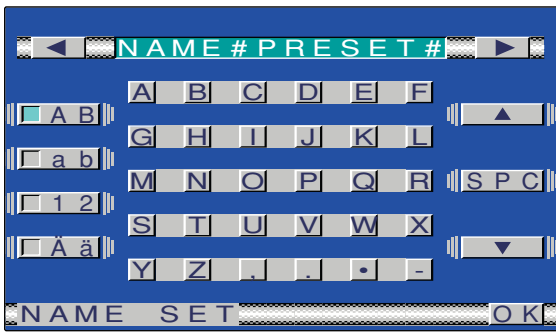
Name Set

1. If the cursor is in the desired character input position, go on to step 4. If not, touch either [◄] or [►] to move the cursor to the desired position. Touching [◄] moves the cursor to the left and touching [►] moves it to the right.

2. Touch [▼] or [▲] to switch the character lists.

NOTE

When all characters are displayed on the character list, [▼] and [▲] do not appear.

3. Touch [A B], [a b], [1 2] or [Ä ä] to switch the character lists.

4. Touch a character.

5. Continue steps 1 and 4 until all the characters have been input for the name.

NOTE

- You can enter up to 12 characters for each name.
- To enter a space, touch [SPC].

6. Touch [OK] to finish name entry and leave the name preset mode.

NOTE

- If you want to change the name of a station, first display the name of the station (following step 1), then change the letter(s) that you by following steps 1, and 4.
- You can assign names to up to 30 TV stations.
- Names registered on this unit will not be displayed on the Center unit.

TV Control Function

Selecting the Channels on the TV Picture Screen

Touch the upper center to change the TV1, TV2 bands and Video
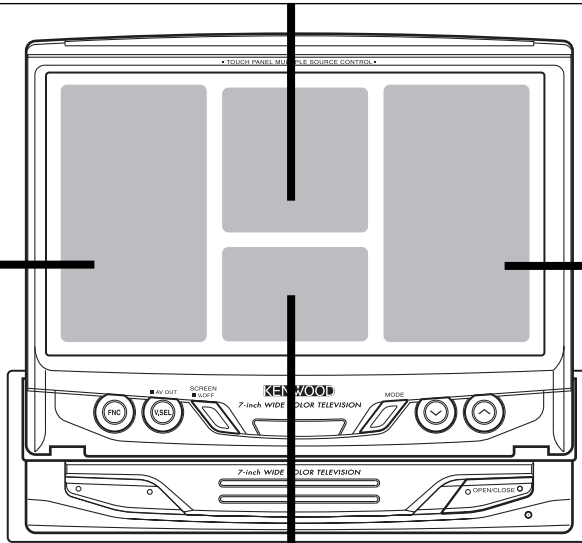
Touch the left part to decrease the channel

Touch the right part to increase the channel

If the lower center of the screen is touched while a TV/video picture is displayed, the audio source, picture settings, video out settings, etc., are superimposed on the picture (On Screen Display). The display turns off when the lower center of the screen is pressed again.

Tuning mode

TV preset band

AUTO2   TV1   10ch — Channel

WIDE
Screen mode — CINEMA

AV OUT
VIDEO — AV output picture mode

TV1 A2 P1   10ch
SNPS######## ⊙12:00

Source control information
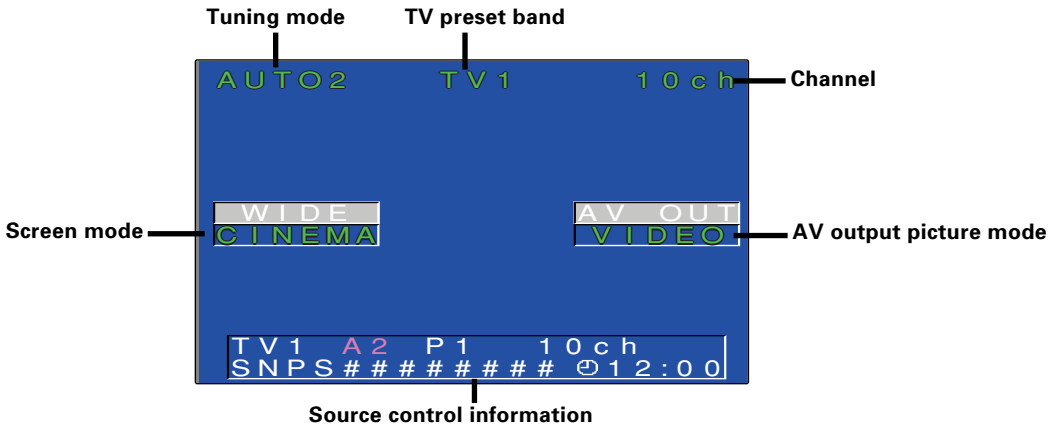
FM/AM Tuner Control Function

Tuner Control Screen

```
┌─────────────────────────────────────┐
│ ‖ATT‖        ‖SRC‖         ‖MENU‖    │
│          ┌──────────────┐            │
│          │   T U N E R  │            │
│          └──────────────┘            │
│ FM3  P1      108.50MHz               │
│                        ⏱12:00        │
│ AUTO1  INFO  NEWS       RDS       TI │
│                    LO.S           ST │
│  ‖AM‖        ‖DIR‖         ‖FM‖      │
│      ‖|◄◄‖       ‖►►|‖               │
│  0   1   2   3   4   5   6   7   8  9│
└─────────────────────────────────────┘
```
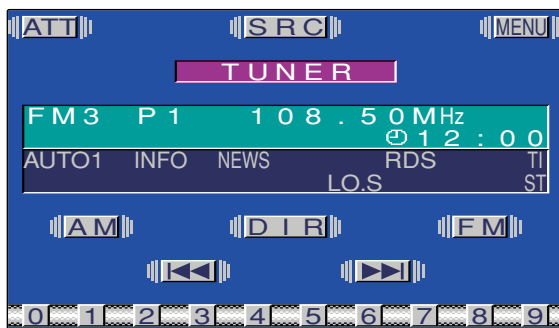
NOTE

During the PTY mode, "PTY SEARCH MODE" is displayed.

Selecting the Bands

Touch either [FM] or [AM] to select the band.
Each time you touch [FM], the band switches .
Touch [AM] to select the AM band.

Tuning

The operation is as follows according to the Seek mode of a center unit.

Auto Seek Tuning (AUTO1)
Touch [►►|] to seek increasing frequencies.
Touch [|◄◄] to seek decreasing frequencies.
Preset Station Seek Tuning (AUTO2)
Touch [►►|] to move to the next preset station (i.e., the one with the next highest number), and [|◄◄] to move to the last preset station (i.e., the one with the next lowest number).
Manual Tuning (MANU)
Touch [►►|] to increase the frequency by one step.
Touch [|◄◄] to decrease the frequency by one step.

NOTE

The ST indicator is displayed when stereo broadcasts are being received.

Recalling a Preset Station

Touch the preset station number [1] - [6] for the desired station. The number of the recalled station is displayed.

NOTE

The number of Preset stations depends on a center unit connected

Direct Access Tuning

When you know the frequency of the station that you want to listen to, you can input it directly for quick access.

1 Select the band by touching the [FM] or [AM].

2 Touch [DIR] .
"----" is displayed for 10 seconds.
If you make no input in the 10-second period, direct access tuning is automatically canceled.

3 Enter the frequency of the desired station.
If you want to listen to an FM station at 92.1 MHz, for example, touch 0, 9, 2, and 1.
If you want to listen to an AM station at 810 kHz, for example, touch 0, 8, 1, and 0.

Canceling Direct Access Tuning:
Touch the [DIR] again.

Switching to the Next Source Mode

Touch [SRC] to switch to the next source control screen.

Switching to the Menu Screen

Touch [MENU] to switch to the menu screen.

Turning the Attenuator On/Off

Turn down the volume quickly.

Touch [ATT] to switch the Attenuator on and off.

CD Player Control Function

CD Player Control Screen

```
ATT            SRC            MENU
                C   D
Track 1 2 2   F 2 2        1 2 : 3 4
                           ⏱1 2 : 0 0
                   F - REP
      —            ►II            +
           I◄◄            ►►I
0   1   2   3   4   5   6   7   8   9
```

NOTE

- Some keys are disabled depending on the functions of a unit connected.
- When a slave CD player plays a disc, the information display such as playing time and track No. is not displayed.

Pausing and Restarting CD Play

Touch [►II] to make the disc pause.
Touch [►II] again to start play again.

Track(MP3:File) Search

Search forwards or backwards through the tracks/files on the disc until you reach the one that you want to listen to.

Making a Forward Track/File Search:
Touch [►►I] to display the desired track/file number. Touch once to fast forward to the next track/file, twice to fast forward to the track/file after that, and so forth.
Play starts at the beginning of the displayed track/file number.

Making a Reverse Track/File Search:
Touch [I◄◄] to display the desired track/file number. Touch once to search back to the beginning of the current track/file, twice to search back to the beginning of the previous track/file, and so forth.
Play starts at the beginning of the displayed track/file number.

Folder Search

Search forward or backward through the folders on the media.

Making a Forward Folder Search:
Touch [+] to move to the next folder. The unit plays the medium starts at the beginning of the selected folder.
If the selected folder contains no MP3 file, the unit automatically plays the file nearest to that folder in the MP3 file playing order.

Making a Backward Folder Search:
Touch [–] to move back to the previous folder. The unit plays the medium starts at the beginning of the selected folder.
If the selected folder contains no MP3 file, the unit automatically plays the file nearest to that folder in the MP3 file playing order.

Direct Track(MP3:File) Search

Directly input the track/file number that you want to listen to.

1 Touch [0] - [9] , input the number of the track/file that you want to listen to.
If you make no further input in the 10-second period, the number entry mode will automatically be canceled.

2 Touch either [I◄◄] or [►►I] .
The track/file starts playing.

Switching to the Next Source Mode

Touch [SRC] to switch to the next source control screen.

Switching to the Menu Screen

Touch [MENU] to switch to the menu screen.

Turning the Attenuator On/Off

Turn down the volume quickly.

Touch [ATT] to switch the Attenuator on and off.

MD Player Control Function

MD Player Control Screen

NOTE

Some keys are disabled depending on the functions of a unit connected.

Pausing and Restarting MD Play

Touch [►II] to make the disc pause.
Touch [►II] again to start play again.

Track Search

Search forwards or backwards through the tracks on the disc until you reach the one that you want to listen to.

Making a Forward Track Search:
Touch [►►I] to display the desired track number.
Touch once to fast forward to the next track, twice to fast forward to the track after that, and so forth.
Play starts at the beginning of the displayed track number.

Making a Reverse Track Search:
Touch [I◄◄] to display the desired track number.
Touch once to search back to the beginning of the current track, twice to search back to the beginning of the previous track, and so forth.
Play starts at the beginning of the displayed track number.

Group Search

Search forward or backward through the groups on the media.

Making a Forward Group Search:
Touch [+] to move to the next group. The unit plays the medium starts at the beginning of the selected group.
If the selected group contains no song, the unit automatically plays the file nearest to that group in the song playing order.

Making a Backward Group Search:
Touch [–] to move back to the previous group.
The unit plays the medium starts at the beginning of the selected group.
If the selected group contains no song, the unit automatically plays the file nearest to that folder in the song playing order.

Direct Track Search

Directly input the track number that you want to listen to.

1 Touch [0] - [9] , input the number of the track that you want to listen to.
If you make no further input in the 10-second period, the number entry mode will automatically be canceled.

2 Touch either [I◄◄] or [►►I] .
The track starts playing.

Switching to the Next Source Mode

Touch [SRC] to switch to the next source control screen.

Switching to the Menu Screen

Touch [MENU] to switch to the menu screen.

Turning the Attenuator On/Off

Turn down the volume quickly.

Touch [ATT] to switch the Attenuator on and off.

Tape Player Control Function

Tape Player Control Screen

Listening to the Other Side

Touch [◄ ►].
Tape play switches to the other side.

Direct Program Search System(DPSS)

Skip backward and forward to other tracks during playback.

Skipping to the Beginning of Current Track or to Previous Tracks (Rewind DPSS):

Touch [I◄◄].
Touch once to rewind to the beginning of the current track, twice to rewind to the beginning of the previous track, and so forth.
You can skip up to nine tracks.
Playback is continued after the tape is rewound by the indicated number of tracks.

Skipping to the Later Tracks (Fast Forward DPSS):

Touch [►►I].
Touch once to fast forward to the next track, twice to fast forward to the track after that, and so forth.
You can skip up to nine tracks.
Playback is continued after the tape is fast forwarded by the indicated number of tracks.

NOTE

The DPSS function "knows" where a track begins by detecting the blank space preceding it (the space between tracks). However, when the blank space lasts for less than four seconds or contains noise, DPSS may not operate correctly. Furthermore, quiet intervals within a song are detected as "blank spaces" if they last for four seconds or more.

Fast Forwarding the Tapes

Touch [►►].
The tape is being fast forwarded.
If the [◄ ►] is touched, normal tape will begin.

Rewinding the Tapes

Touch [◄◄].
The tape is being rewound.
If the [◄ ►] is touched, normal tape play will begin.

Switching to the Next Source Mode

Touch [SRC] to switch to the next source control screen.

Switching to the Menu Screen

Touch [MENU] to switch to the menu screen.

Turning the Attenuator On/Off

Turn down the volume quickly.

Touch [ATT] to switch the Attenuator on and off.

Disc Changer Control Function

Disc Changer Control Screen

Pausing and Restarting Disc Play

Touch [►II] to make the disc pause.
Touch [►II] again to start play again.

NOTE

When one disc has finished playing its last track, the next disc in the changer starts playing. When the last disc in the changer has finished, the player returns to the first disc and starts playing it.

Track Search

Search forwards or backwards through the tracks on the disc until you reach the one that you want to listen to.

Making a Forward Track Search:

Touch [►►I] to display the desired track number.
Touch once to fast forward to the next track, twice to fast forward to the track after that, and so forth.
Play starts at the beginning of the displayed track number.

Making a Reverse Track Search:

Touch [I◄◄] to display the desired track number.
Touch once to search back to the beginning of the current track, twice to search back to the beginning of the previous track, and so forth.
Play starts at the beginning of the displayed track number.

Disc Search

Search forwards or backwards through the discs in a disc changer until you reach the one that you want to listen to.

Making a Forward Disc Search:

Touch [D +] to display the desired disc number.
Each time [D +] is touched, the displayed disc number increases by one.
Play starts at the beginning of the displayed disc.

Making a Reverse Disc Search:

Touch [D –] to display the desired disc number.
Each time [D –] is touched, the displayed disc number decreases by one.
Play starts at the beginning of the displayed disc.

Direct Track Search

Directly input the track number that you want to listen to.

1 Touch [0] - [9] , input the number of the track that you want to listen to.
If you make no further input in the 10-second period, the number entry mode will automatically be canceled.

2 Touch either [I◄◄] or [►►I] .
The track starts playing.

Direct Disc Search

Directly input the disc number that you want to listen to.

1 Touch [0] - [9] , input the number of the disk that you want to listen to.
If you make no further input in the 10-second period, the number entry mode will automatically be canceled.

2 Touch either [D +] or [D –].
The disc starts playing.

Switching to the Next Source Mode

Touch [SRC] to switch to the next source control screen.

Switching to the Menu Screen

Touch [MENU] to switch to the menu screen.

Turning the Attenuator On/Off

Turn down the volume quickly.

Touch [ATT] to switch the Attenuator on and off.

DAB Control Function **(Refer to the KTC-9090DAB's instruction manual for DAB tuner features.)**

DAB Control Screen

Selecting the Bands

Each time you touch [BAND], the band switches between the DAB1, DAB2 and DAB3.

Switching Service

Touch [►►I] to switch the service in the Ensemble one after another.
Touch [I◄◄] to switch the service in the reverse order.

Primary/Secondary Switching

The Primary and Secondary can be switched with services that are composed of more than one service components.

Each time you touch [P/S], the Service components are switched.

NOTE

The Primary is selected automatically when the service is switched or the unit is turned off.

Recalling a Preset Service

Touch the preset service number [1] - [6] for the desired service. The number of the recalled service is displayed.

Switching to the Next Source Mode

Touch [SRC] to switch to the next source control screen.

Switching to the Menu Screen

Touch [MENU] to switch to the menu screen.

Turning the Attenuator On/Off

Turn down the volume quickly.

Touch [ATT] to switch the Attenuator on and off.

Remote Control Function

▶II button ———————— SRC button
FM+ button ———————— I◀◀ button
VOLUME buttons ———————— ▶▶I button
ATT button ———————— AV OUT button
V.SEL button ———————— FNC button
OPEN button ———————— SP button
AME button ———————— MODE button
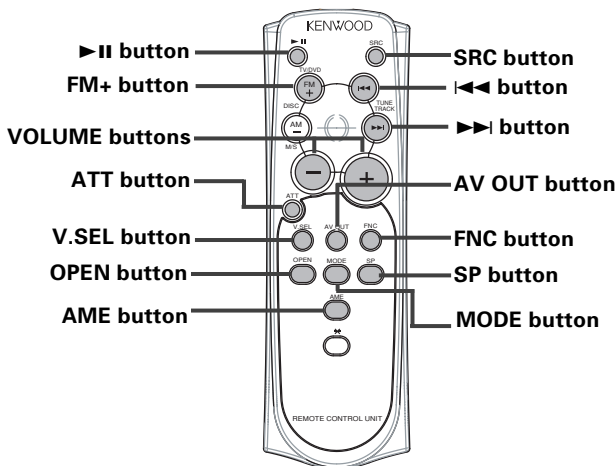
▶ Basic Source Control Function

• **SRC button**
Each time you press the SRC button, the source mode switches.

NOTE
• The mode switches to the next mode from any mode which cannot be used.
• The tuner mode, CD mode, tape mode and disc changer mode will differ depending on the unit that is connected.

• **VOLUME buttons**
Press the ⊕ button to increase the volume.
Press the ⊖ button to decrease the volume.

• **ATT button**
Turn down the volume quickly. To return the volume to its original level, press the button again.

• **SP button**
Switch to the built-in speaker mode.

• **OPEN button**
Open/Close the monitor.

NOTE

The " ✕ " button cannot be used.

▶ Visual Function

• **V.SEL button**
Each time you press V.SEL button, the image video will switch between the navigation, television and video.

• **MODE button**
Each time you press MODE button, the screen mode switches between the full, zoom, just, cinema and normal.

• **FNC button**
Press the FNC button to switch the source control screen.
Each time you press FNC button, the back picture in the source control screen changes.

• **AV OUT button**
Each time you press AV OUT button, the AV output mode switches between the normal, television and video.

▶ TV Control Function

(Operation available when the TV audio source is selected.)

• **▶II button**
Each time you press the ▶II button, the tuning mode switches to auto 1, to auto 2 and manual.

• **TUNE buttons**
Press the I◀◀ button to make decreasing seeks.
Press the ▶▶I button to make increasing seeks.

• **FM+ button**
Switch between the TV1, TV2 and video.

• **AME button**
  1 Selects the band for auto memory entry.
  2 Press the AME button.
  3 Press the ▶▶I button or I◀◀ button to start auto memory entry.

Remote Control Function

FM+ button —— ►II button
AM– button —— I◄◄ button
—— ►►I button
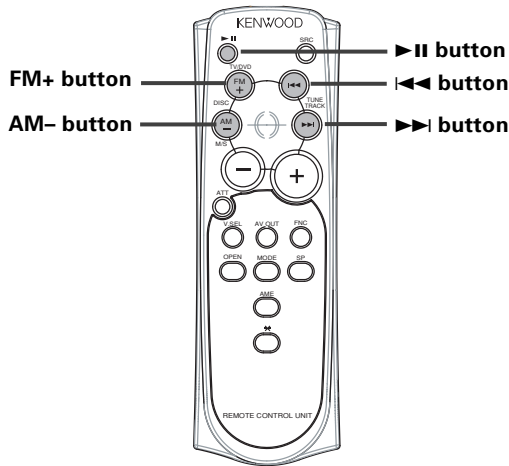
►FM/AM Tuner Control Function

- **TUNE buttons**
  Press the I◄◄ button to make decreasing seeks.
  Press the ►►I button to make increasing seeks.

- **FM+ button**
  Select the FM bands.
- **AM– button**
  Select the AM band.

►Tape Control Function

- **►II button**
  Plays the other side of the tape.
  When pressed during fast forward and rewind, this
  button stops the tape and starts playing it.
- **TRACK buttons**
  Press the I◄◄ button to start play again at the
  beginning of the current track.
  Press the ►►I button to start play at the beginning of
  the next track.

- **FM+ / AM– buttons**
  Press the AM– button, Rewinds the tape.
  Press the FM+ button, Fast forwards the tape.

►Disc Changer Control Function

- **►II button**
  Press the ►II button to make the disc pause.
  Press the ►II button to start play again.
- **TRACK buttons**
  Press the I◄◄ button to search through the tracks
  backwards.
  Press the ►►I button to search through the tracks
  forwards.

- **DISC buttons**
  Press the AM– button to search through the discs
  backwards.
  Press the FM+ button to search through the discs
  forwards.

►CD/MD Control Function

- **►II button**
  Press the ►II button to make the disc pause.
  Press the ►II button to start play again.
- **TRACK buttons**
  Press the I◄◄ button to search through the tracks
  backwards.
  Press the ►►I button to search through the tracks
  forwards.

- **DISC buttons (MP3/MD group)**
  Press the AM– button to move to the next
  folder/group.
  Press the FM+ button to move back to the previous
  folder/group.

Troubleshooting Guide

What might appear to be a malfunction in your unit may just be the result of slight misoperation or miswiring. Before calling service, first check the following table for possible problems.

English

PROBLEM	POSSIBLE CAUSE	SOLUTION
The power does not turn on.	The fuse has blown.	After checking for short circuits in the cables, replace the fuse with one having the same rating.
	No ACC position on vehicle ignition.	Connect the same wire to the ignition as the battery wire.
Nothing happens when the buttons are pressed.	The computer chip in the unit is not functioning normally.	Press the reset button on the unit (See page 4).
The monitor does not open/close.	The parking brake is not engaged.	For safety reasons, the monitor does not open while the vehicle is moving. Engaging the parking brake.
No television/video image appears.	The unit is not connected to the parking brake detection switch.	Make proper connections according to "Connection" (See Installation Manual).
	The parking brake is not engaged.	For safety reasons no television/video images are displayed while the vehicle is moving. Engaging the parking brake will cause images to be displayed.
The screen is dark.	The unit is in a location where temperature is low.	If the temperature of the monitor unit drops, the screen may appear darker when power is first turned on due to the characteristics of a liquid crystal panel. Wait a while after turning power on for the temperature to rise. Normal brightness will return.
The screen does not darken when the vehicle's lights are turned on	The unit is set to auto dimmer.	When the unit is set to auto dimmer, it is not linked to the vehicle's light switch.
AM/FM radio reception is poor and/or there is noise.	The TV antenna and vehicle's radio antenna are too close.	• Separate the two antennas as far as possible. • Turn off the main unit.

The following messages are displayed when certain problems are occurring in your system. Take the recommended actions.

EJECT
No disc magazine has been loaded in the changer. The disc magazine is not completely loaded.
⇒ Load the disc magazine properly.
No CD in the unit.
⇒ Insert the CD.

NO DISC
No disc has been loaded in the disc magazine.
⇒ Load a disc into the disc magazine.

ERROR-04
No disc has been loaded in the disc magazine.
⇒ Load a disc into the disc magazine.
The CD is quite dirty. The CD is upside-down. The CD is scratched a lot.
⇒ Clean the CD and load it correctly.

ERROR-99
Something is wrong with the disc magazine. Or the unit is malfunctioning for some reason.
⇒ Check the disc magazine. And then press the reset button on the unit. If the "ERROR- 99" code does not disappear, consult your nearest service center.

HOLD
The protective circuit in the unit activates when the temperature inside the automatic disc changer exceeds 60°C (140°F), stopping all operation.
⇒ Cool down the unit by opening the windows or turning on the air conditioner. As the temperature falls below 60°C (140°F), the disc will start playing again.

Headunit Adjusting
This is displayed when a center unit is in the Adjust mode. During "Headunit Adjusting" is displayed, buttons other than [SRC], [ATT] and [MENU] are disabled.

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Specifications

Specifications subject to change without notice.

Monitor Section

Picture size ....7.0 inches wide (154.1 mm × 87.0 mm)
Display system ....Transparent TN LCD panel
Drive system..TFT active matrix system
Number of pixels...336.960 pixels (480 H × 234 V × RGB)
Effective pixels 99.99%
Pixel arrangement...RGB striped arrangement
Back lighting ....Cold cathode tube
Built-in speaker ....1W (40 mm × 20 mm)

TV Tuner Section

Color system <VZ-7000P> ....PAL
Color system <VZ-7000N> ....NTSC
Channel selection system...PLL frequency synthesizer system
Television system & Channel converge <VZ-7000P>

Television system		PAL-B/G			PAL-I	PAL-D
Channel converge	VHF	2 - 12ch	1A - 11ch	0 - 12ch	——	1 - 12ch
	UHF	21 - 69ch	21 - 69ch	28 - 69ch	21 - 69ch	13 - 57ch

Television system <VZ-7000N> ....M
Channel converge <VZ-7000N> ....2-13ch(VHF)/14-69(UHF)
Demoduration system ....Split carrier system
Antenna input ....4-ch diversity (75 Ω /3.5 ø minijack)
External video input level (RCA jacks:AV in) ....1 Vp-p/ 75 Ω
External audio input level (RCA jacks:AV in)..1 V/ 22 KΩ
External video input level (RCA jacks:Video2 in) ....1 Vp-p/ 75 Ω
External Video output level (RCA jacks:AV out)..1 Vp-p/ 75 Ω
External Audio output level (RCA jacks:AV out) ....500 mV/ 1 KΩ
Analog RGB input ....0.7 Vp-p/ 75 Ω
FM-TX frequency ....87.5MHz to 89.9MHz (100KHz STEP)

General

Operating voltage ....14.4 V DC (11 to 16 V)
Consumed current ....2.5 A
Operational temperature range ....–10°C to +60°C
Storage temperature range ....–20°C to +85°C
Size(W × H × D) ....180 mm × 50mm × 191.5 mm
Installation size(W × H × D) ....178 mm × 50 mm × 165 mm
Mass..1.82 kg

TV Antenna Unit

Output inpedance ....75 Ω /3.5 ø minijack
Operating voltage ....14.4 V DC (11 to 16 V)
Consumed current ....1.0 A
Cable length ....5 m
Size(W × H × D) ....50 mm x 14.5 mm x 500 mm
Mass..300 g (x2)

Although the effective pixels for the liquid crystal panel is given as 99.99% or more, 0.01% of pixels may not light or may light incorrectly.

KENWOOD